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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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HARRINGTON & SMITH			EXAMINER	
4 RESEARCH DRIVE, Suite 202			PESIN, BORIS M	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	09/886,419	SCOTT, JOHAN
	Examiner BORIS PESIN	Art Unit 2174

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 26 October 2009.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-3,6-8,10-16,23-26,30-35,37-42 and 44-48 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-3,6-8,10-16,23-26,30-35,37-42 and 44-48 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application
- 6) Other: _____.

DETAILED ACTION

Response to Amendment

This communication is responsive to the amendment filed 10/26/2009.

Claims 1-3, 6-8 10-16, 23-26, 30-35, 37-42, and 44-48 are pending in this application.

Claims 1, 44 and 48 are independent claims. In the amendment filed 10/26/2009, claims 1, 44, 45 and 48 were amended. This action is made Final.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1, 2, 3, 6, 7, 8, 14, 15, 23-26, 30, 31, 32, 33, 34, 35, 37, 38, 39, 40, 44, 45, 46, and 48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka et al. (US 6435969) in view of Leah et al. (US 5808601).

In regards to claim 1, Tanaka teaches a method of selecting an object by controlling movement of a focus on a graphical display comprising receiving a signal for moving the focus in a given direction on a graphical display (i.e. Column 20, Lines 40-59); providing, in response to receiving said signal, predefined acceleration data for accelerating said focus in said given direction (i.e. Column 20, Lines 60-66); determining a position of the focus on the graphical display as a function of said acceleration data (i.e. Column 20, Lines 60-66); and displaying the focus at said position (i.e. Column 20, Lines 40-59). Tanaka further teaches receiving a signal from a dual-state button having a single depressed state, for moving the focus in a given direction on said display (i.e. Column 20, Lines 60-66).

Tanaka does not teach determining a distance between the focus and an object as a radius using a co-ordinate system that is rotated and compressed in a direction of movement of said focus, where said co-ordinate system is rotated so that it becomes aligned with the direction of movement; and if said object has the smallest determined radius, marking said object as a selected object. Leah teaches determining a distance between the focus and an object as a radius using a co-ordinate system that is rotated and compressed in a direction of movement of said focus, where said co-ordinate system is rotated so that it becomes aligned with the direction of movement; and if said object has the smallest determined radius, marking said object as a selected object (See Figure 2B and column 5 line 37- column 6 line 12, Leah reads on Applicant's claim limitations when the cursor is not moving. When the cursor is stationary the compression of the coordinate system would make the radius a perfect circle.). It would

have been obvious to one of ordinary skill in the art at the time of the invention to modify Tanaka with the teachings of Leah and include a system that uses a distance between the focus and an object as a radius to determine the object of selection with the motivation to provide the user a simple method of selecting objects.

In regards to claim 2, Tanaka and Leah teach a method further comprising determining an acceleration of the focus as a function of the acceleration data (i.e. Tanaka Column 20, Lines 60-66).

In regards to claim 3, Tanaka and Leah a method further comprising determining a velocity of the focus in dependence upon the acceleration (i.e. Tanaka Column 20, Lines 60-66).

In regards to claim 6, Tanaka and Leah a method, further comprising updating the acceleration using some or all of the acceleration data (i.e. Tanaka Column 20, Lines 60-66), updating a velocity and position of the focus and displaying the focus at the updated position (i.e. Tanaka Column 20, Lines 60-66).

In regards to claim 7, Tanaka and Leah a method further comprising determining whether a velocity of the focus exceeds a predefined maximum (i.e. Tanaka Column 20 Line 45 – Column 21 Line 17).

In regards to claim 8, Tanaka and Leah teach a method, further comprising limiting the velocity of the focus if it exceeds s a predefined maximum (i.e. Tanaka Column 20 Line 45 – Column 21 Line 17).

In regards to claim 14, Tanaka and Leah teach a method wherein the focus is a pointer (i.e. Tanaka Column 20, Lines 40-59).

In regards to claim 15, Tanaka and Leah teach a method wherein the focus is a part of a page content (i.e. Tanaka Column 20, Lines 40-59).

In regards to claim 23, Tanaka and Leah disclose determining in dependence upon said direction of movement which of one plurality of objects is an intended destination of the focus and highlighting one object for selection, where the highlighting is accomplished without the focus reaching the intended destination. (Leah Abstract, the item is selected without the cursor reaching the destination).

In regards to claim 24, which is dependent of claim 23, Tanaka and Leah disclose a method wherein the determining of which one of said plurality of objects is the intended destination comprises determining which of said objects is closest to the focus (i.e. Leah Abstract).

In regards to claim 25, which is dependent of claim 23, Tanaka and Leah disclose a method wherein the determining of which one of said plurality of objects is the intended destination comprises determining which of said objects substantially lies in a path of the direction of movement (i.e. Leah Abstract).

In regards to claim 26, which is dependent of claim 23, Tanaka and Leah disclose a method wherein the determining of which one of said plurality of objects is the intended destination further comprises defining a metrics system (i.e. Tanaka Column 20 Line 45 – Column 21 Line 17).

In regards to claim 30, Tanaka and Leah a method wherein providing predefined acceleration data for accelerating said focus in said given direction comprises adding at least one data value to a buffer of acceleration data values (i.e. Tanaka Column 20, Lines 60-66).

In regards to claim 31, Tanaka and Leah a method wherein providing predefined acceleration data for accelerating said focus in said given direction comprises updating a buffer of acceleration data values (i.e. Tanaka Column 20, Lines 60-66).

In regards to claim 32, Tanaka and Leah a method comprising reading out a data value at a front of said buffer and calculating a velocity and a position of said focus using said data value (i.e. Tanaka Column 20 Line 45 – Column 21 Line 17).

In regards to claim 33, Tanaka and Leah a method wherein said buffer is updated whenever a signal from said dual-state button is received (i.e. Tanaka Column 20 Line 45 – Column 21 Line 17).

In regards to claim 34, Tanaka and Leah a method wherein reading said data value and calculating said velocity and said position is repeated every time a frame on said display is updated (i.e. Tanaka Column 20 Line 45 – Column 21 Line 17).

In regards to claim 35, Tanaka and Leah teach a method wherein acceleration data is in a form of impulse data (i.e. Tanaka Column 20 Line 45 – Column 21 Line 17).

In regards to claim 37, Tanaka and Leah a method wherein determining said velocity comprises adjusting said velocity for friction so as to reduce said (i.e. Tanaka Column 20 Line 45 – Column 21 Line 17).

In regards to claim 38, Tanaka and Leah a method further comprises: receiving another signal from a dual-state button having a single depressed state, for moving the focus in an other, different direction (i.e. Tanaka Column 20 Line 45 – Column 21 Line 17); providing, in response to receiving said other signal, other predefined acceleration data for accelerating said focus in said other, different given direction (i.e. Tanaka Column 20 Line 45 – Column 21 Line 17); determining a position of the focus on the graphical display as a function of said predefined acceleration data (i.e. Tanaka Column 20 Line 45 – Column 21 Line 17).

In regards to claim 39, Tanaka and Leah a method wherein providing predefined acceleration data for accelerating said focus in said different given direction comprises adding at least one data value to another, different buffer of acceleration data values (i.e. Tanaka Column 20 Line 45 – Column 21 Line 17).

In regards to claim 40, Tanaka and Leah teach determining, in response to accelerating said focus, a maximum velocity of the focus, where the maximum velocity is reduced as the focus approaches an edge of the graphical display (Tanaka Figures 18 A and 18B, the user is able to reduce the velocity).

Claim 44 is in the same scope as claim 1; therefore it is rejected under similar rationale.

Claim 45 is in the same scope as claim 40; therefore it is rejected under similar rationale.

In regards to claim 46, Tanaka and Leah teach an apparatus according to claim 44, embodied in one of a computer and a multimedia home product (See Tanaka Figure 1).

Claim 48 is in the same scope as claim 1; therefore it is rejected under similar rationale.

Claims 16 and 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka et al. (US 6435969) in view of Leah et al. (US 5808601).

In regards to claim 16, Tanaka and Leah do not teach a method according to claim 1 wherein the focus is a window. However, official notice is given that it is well known in the art to implement a method according to claim 1, wherein the focus is a window. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Tanaka-Leah and include a method wherein the focus is a window with the motivation to provide more data on the screen simultaneously.

In regards to claim 47, Tanaka and Leah do not teach an apparatus according to claim 44 which is a mobile telephone computer. However, official notice is given that it is well known in the art to implement a user interface in a mobile phone. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Tanaka-Leah and include the user interface capability in a mobile phone for easier selection of objects in a mobile phone.

Claims 10, 11, 12, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable Tanaka et al. (US 6435969) in view of Leah et al. (US 5808601) in view of Yamada (US 5874941).

In regards to claim 10, Tanaka-Leah teaches all the limitations of claim 1. Tanaka-Leah does not specifically teach a method of claim 1 wherein said providing predefined acceleration data comprises adding a first set of acceleration data to a second set of acceleration data. Yamada teaches a method for "adding the first and second cursor moving values [acceleration] to first and second cursor values corresponding to the position of the cursor displayed at present." (Column 3, Line 12). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Tanaka-Leah with the teachings of Yamada to include a way to add sets of acceleration data together with the motivation to provide for efficient movement in response to a user movement of the cursor.

In regards to claim 11, Tanaka-Leah and Yamada teach "the acceleration signal is controlled to be zero [i.e. predefined] when the pointer is stopped" (Yamada, Column 8, Line 52).

In regards to claim 12, Tanaka-Leah and Yamada teach all the limitations of claim 10. They do not teach a method further comprising determining a velocity of the focus by adding a first member of the acceleration data to a previously determined velocity. Official notice is given that velocity as a function of time is well known in the art as: $v = v_0 + a t$ where v_0 is the initial velocity (at $t = 0$), v is the velocity of the object at time t and a is the acceleration. It would have been obvious to one of ordinary skill in

the art at the time of the invention to modify Tanaka-Leah and Yamada and use the function in order to calculate the velocity with the motivation to provide for efficient movement in response to a user movement of the mouse.

In regards to claim 13, Tanaka-Leah and Yamada teach “the acceleration signal is controlled to be zero [i.e. predefined] when the pointer is stopped” (i.e. Tanaka Column 20 Line 45 – Column 21 Line 17).

Claim 42 is rejected under 35 U.S.C. 103(a) as being unpatentable Tanaka et al. (US 6435969) in view of Leah et al. (US 5808601) and further in view of Rutledge et al. (US 5764219).

In regards to claim 42, Tananka and Leah teach all the limitations of claim 1. They do not teach a method further comprising compressing said coordinate system in the direction of movement by a compression factor $k/(|v| + 1)$, where $|v|$ is a speed of the focus and the k is a scaling constant. Rutledge teaches, “The coordinate of this graph is cursor velocity, the abscissa is force, in percent of the corresponding scale factors. The velocity scale factor (multiplier of v in the above formulas) is 1500 pixels/second, or on a screen, 66 cm/second.” Column 3, Line 23). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Tanaka and Leah with the teachings of Rutledge and include a method of changing the coordinate system with the motivation to provide for a convenient method of reducing image size and providing improved control of a pointing device.

Claim 41 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka et al. (US 6435969) in view of Leah et al. (US 5808601) further in view of Efrat et al. (US 6570587).

In regards to claim 41, Tanaka-Leah teach all the limitations of claim 1. They do not specifically teach a first mode wherein the display begins to scroll if the focus is moved to the edge of the display; and a second mode wherein the display is moved relative to the object. Efrat teaches a first mode wherein the display begins to scroll if the focus is moved to the edge of the display; and a second mode wherein the display is moved relative to the object (See Column 19, Lines 40-52). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Tanaka-Leah with the teachings of Efrat and include the capability to scroll the screen as the cursor approaches the border with the motivation to provide the user with easier scrolling mechanism.

Response to Arguments

Applicant's arguments filed 10/26/2010 have been fully considered but they are not persuasive.

With respect to Applicant's arguments that the prior art found does not teach "determining a distance between a focus and an object as a radius using a co-ordinate system that is rotated and compressed in a direction of movement of said focus," the Examiner respectfully disagrees. Since Applicant's claims do not preclude the possibility that the cursor is stationary, Leah would read on the recited claim limitation

(See explanation above in the body of the rejection). Given that the cursor can be stationary, the radius would be a perfect circle. To overcome the cited art, the Examiner suggests that the Applicant amend the claims to specify that the "determining" step is occurring during the movement of the cursor.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BORIS PESIN whose telephone number is (571)272-4070. The examiner can normally be reached on Monday-Friday except every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dennis Chow can be reached on (571)272-7767. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Boris Pesin/
Primary Examiner, Art Unit 2174